

MIL-DTL-83513/28 Thru /33 Micro-D Connectors Straight PCB Connectors (CBS)



Space-Saving — These connectors take up less room on the PC board. PC tail spacing is .075 inch (1.9mm), compared to .100 inch (2.54mm.).

Threaded Inserts — Stainless steel inserts are insert molded into plastic trays. These inserts provide a ground path from the PC board to the mating cable.

Solder-Dipped — Terminals are coated with SN63/Pb37 tin-lead solder for best solderability.

HOW TO ORDER M83513/22 THRU /27 STRAIGHT PCB CONNECTORS

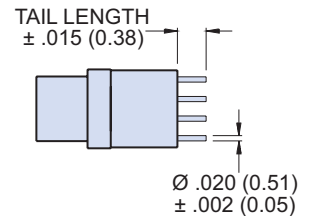
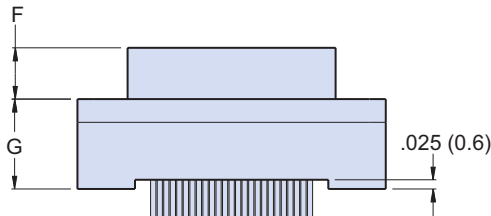
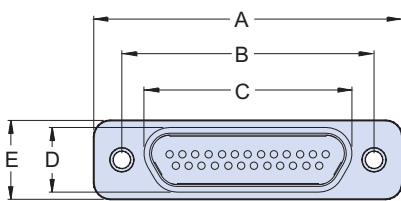
| Spec Number | Slash Number- Shell Size | PC Tail Length | Shell Finish | Hardware Option |
|--------------------|-------------------------------------|---------------------------------|-------------------------------|---|
| M83513 | Plug (Pin Contacts) | 01 – .109 Inch (2.77 mm) | C – Cadmium | N – No Jackpost |
| | 28–A - 9 Contacts | 02 – .140 Inch (3.56 mm) | N – Electroless Nickel | P – Jackposts Installed |
| | 28–B - 15 Contacts | 03 – .172 Inch (4.37 mm) | P – Passivated SST | T – Threaded Insert in Board Mount Hole (No Jackposts) |
| | 28–C - 21 Contacts | PC Tail Length ± .015 (0.38) | | W –Threaded Insert in Board Mount Hole and jackposts Installed |
| | 28–D - 25 Contacts | | | See "Hardware Options" below for Illustrations |
| | 28–E - 31 Contacts | | | |
| | 28–F - 37 Contacts | | | |
| | 29–G - 51 Contacts | | | |
| | 30–H - 100 Contacts | | | |
| | Receptacle (Socket Contacts) | | | |
| | 31–A - 9 Contacts | | | |
| | 31–B - 15 Contacts | | | |
| | 31–C - 21 Contacts | | | |
| | 31–D - 25 Contacts | | | |
| | 31–E - 31 Contacts | | | |
| | 31–F - 37 Contacts | | | |
| | 32–G - 51 Contacts | | | |
| | 33–H - 100 Contacts | | | |
| Sample Part Number | | | | |
| M83513/ | 33-H | 01 | C | P |

HARDWARE OPTIONS

| N | P | T | W |
|-------------|----------|-----------------|---------------------------|
| | | | |
| No Jackpost | Jackpost | Threaded Insert | Jackpost, Threaded Insert |

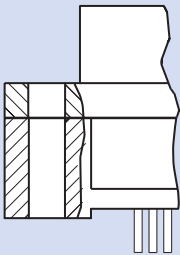


MIL-DTL-83513/28 Thru /33 Micro-D Connectors Straight PCB Connectors (CBS)



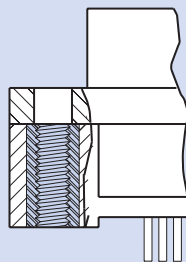
M83513/28 THRU 33 HARDWARE OPTIONS

HARDWARE OPTION N NO JACKPOST, NO THREADED INSERT



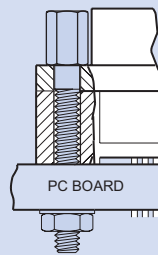
MTNG HOLE DIA.
9-51 CONTACTS
.096/.088 (2.44/2.24)
100 CONTACTS
.128/.122 (3.25/3.10)

HARDWARE OPTION T THREADED INSERT, NO POST



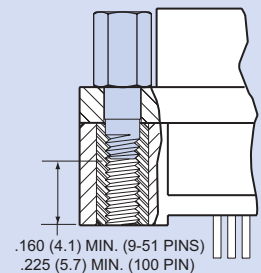
THREAD SIZE
9-51 CONTACTS # 2-56 UNC-2B
100 CONTACTS # 4-40 UNC-2B

HARDWARE OPTION P JACKPOST AND THRU-HOLE



THREAD SIZE
9-51 CONTACTS # 2-56 UNC
100 CONTACTS # 4-40 UNC
**USE WITH .156 3.96) MAX. PC
BOARD THICKNESS**

HARDWARE OPTION W JACKPOST AND THREADED INSERT



THREAD SIZE
9-51 CONTACTS #2-56 UNC
100 CONTACTS #4-40 UNC

DIMENSIONS

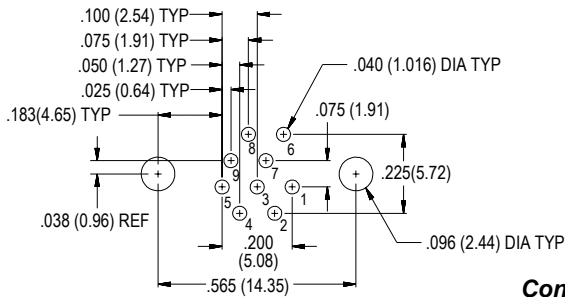
| Layout | A Max. | | B | | C Max. | | D Max. | | E Max. | | F | | G Max. | |
|--------|--------|-------|--------------|--------------|--------|-------|--------|------|--------|-------|--------------|--------------|--------|-------|
| | In. | mm. | In. ±.005 | mm. ±0.13 | In. | mm. | In. | mm. | In. | mm. | In. ±.003 | mm. ±0.08 | In. | mm. |
| 9P | .785 | 19.94 | .565 | 14.35 | .333 | 8.46 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .355 | 9.02 |
| 9S | .785 | 19.94 | .565 | 14.35 | .400 | 10.16 | .253 | 6.43 | .310 | 7.87 | .195 | 4.95 | .355 | 9.02 |
| 15P | .935 | 23.75 | .715 | 18.16 | .483 | 12.27 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .355 | 9.02 |
| 15S | .935 | 23.75 | .715 | 18.16 | .551 | 14.00 | .253 | 6.43 | .310 | 7.87 | .195 | 4.95 | .355 | 9.02 |
| 21P | 1.085 | 27.56 | .865 | 21.97 | .633 | 16.08 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .355 | 9.02 |
| 21S | 1.085 | 27.56 | .865 | 21.97 | .701 | 17.81 | .253 | 6.43 | .310 | 7.87 | .195 | 4.95 | .355 | 9.02 |
| 25P | 1.185 | 30.01 | .965 | 24.51 | .733 | 18.62 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .355 | 9.02 |
| 25S | 1.185 | 30.01 | .965 | 24.51 | .801 | 20.35 | .253 | 6.43 | .310 | 7.87 | .195 | 4.95 | .355 | 9.02 |
| 31P | 1.335 | 33.91 | 1.115 | 28.32 | .883 | 22.43 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .355 | 9.02 |
| 31S | 1.335 | 33.91 | 1.115 | 28.32 | .951 | 24.16 | .253 | 6.43 | .310 | 7.87 | .195 | 4.95 | .355 | 9.02 |
| 37P | 1.485 | 37.72 | 1.265 | 32.13 | 1.033 | 26.24 | .185 | 4.70 | .310 | 7.87 | .183 | 4.65 | .355 | 9.02 |
| 37S | 1.485 | 37.72 | 1.265 | 32.13 | 1.101 | 27.96 | .253 | 6.43 | .310 | 7.87 | .195 | 4.95 | .355 | 9.02 |
| 51P | 1.435 | 36.45 | 1.215 | 30.86 | .983 | 24.97 | .228 | 5.79 | .400 | 10.16 | .183 | 4.65 | .355 | 9.02 |
| 51S | 1.435 | 36.45 | 1.215 | 30.86 | 1.051 | 26.70 | .296 | 7.52 | .400 | 10.16 | .195 | 4.95 | .355 | 9.02 |
| 100P | 2.170 | 55.12 | 1.800 | 45.72 | 1.383 | 35.13 | .271 | 6.88 | .510 | 12.95 | .183 | 4.65 | .430 | 10.92 |
| 100S | 2.170 | 55.12 | 1.800 | 45.72 | 1.451 | 36.86 | .340 | 8.64 | .510 | 12.95 | .195 | 4.95 | .430 | 10.92 |

MIL-DTL-83513/28 Thru /33 Micro-D Connectors Straight PCB Connectors (CBS)

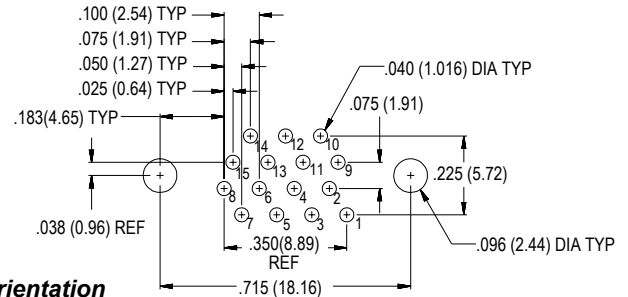


Patterns shown are for connector mounting side of PC board.

M83513/28 THRU 30 PCB LAYOUTS – PIN CONNECTORS

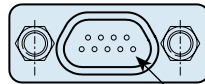


9 PIN M83513/28-A

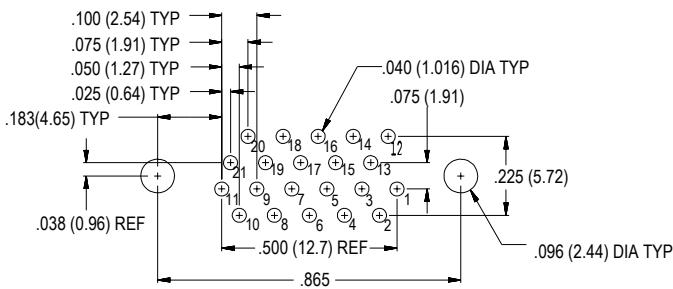


15 PIN M83513/28-B

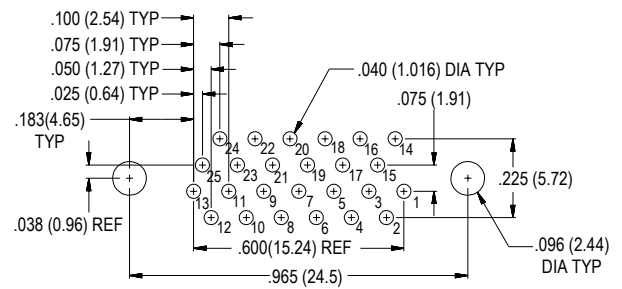
Connector Orientation



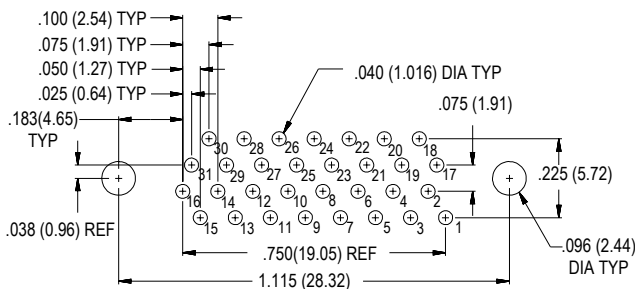
Pin #1



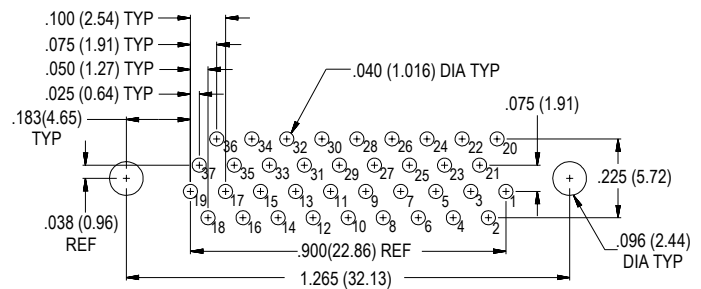
21 PIN M83513/28-C



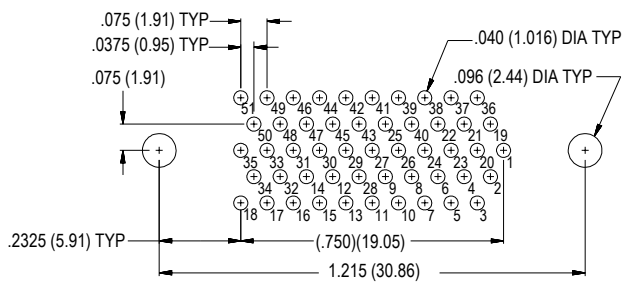
25 PIN M83513/28-D



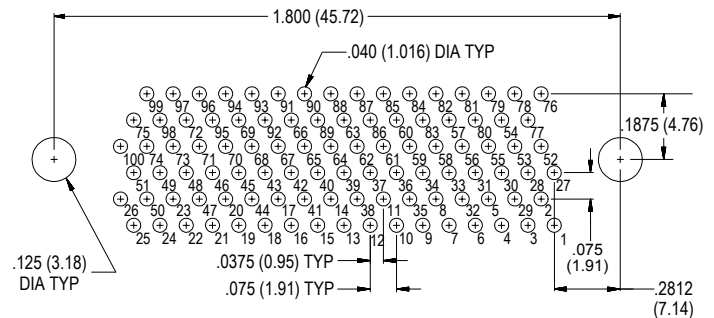
31 PIN M83513/28-E



37 PIN M83513/28-F



51 PIN M83513/29-G



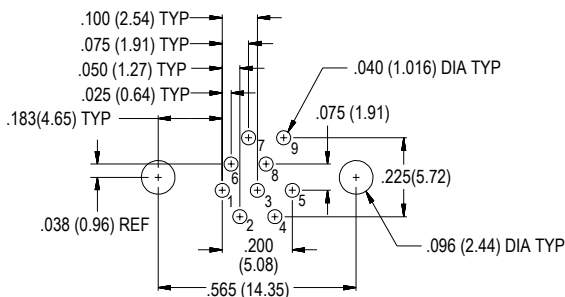
100 PIN M83513/30-H



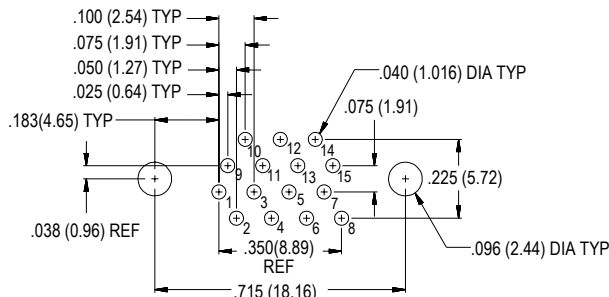
MIL-DTL-83513/28 Thru /33 Micro-D Connectors Straight PCB Connectors (CBS)

Patterns shown are for connector mounting side of PC board.

MM83513/31 THRU /33 PCB LAYOUTS – SOCKET CONNECTORS

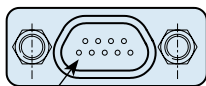


9 Socket M83513/31-A

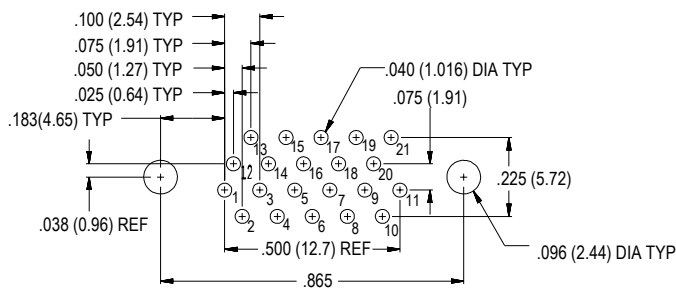


15 Socket M83513/31-B

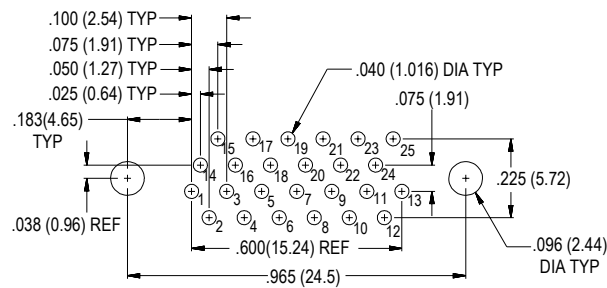
Connector Orientation



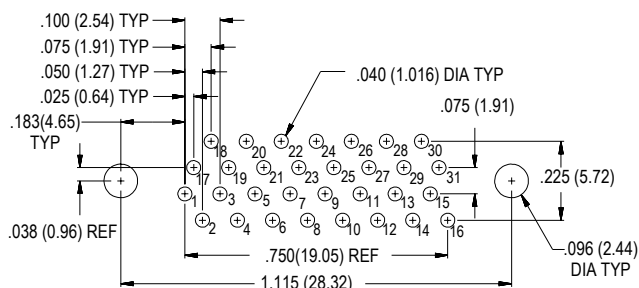
Socket #1



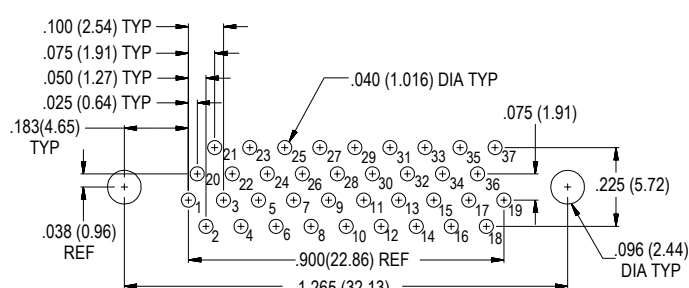
21 Socket M83513/31-C



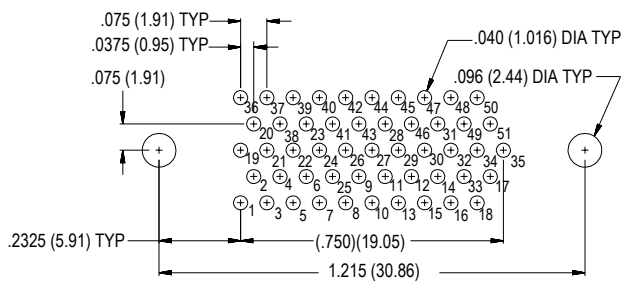
25 Socket M83513/31-D



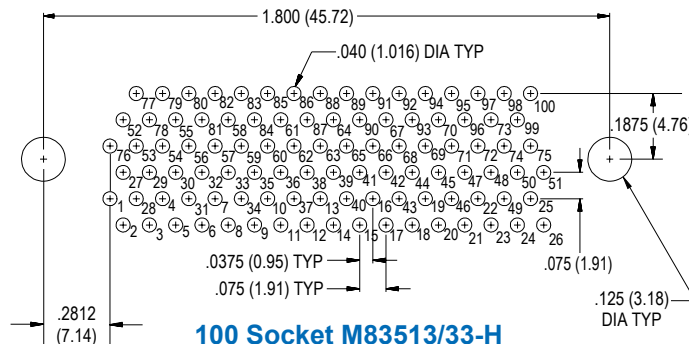
31 Socket M83513/31-E



37 Socket M83513/31-F



51 Socket M83513/32-G



100 Socket M83513/33-H

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